Complete Listing of the Claims

This Complete Listing of Claims replaces all prior versions of claims in the subject application.

- (Original) A method of disinfecting or sterilizing an article comprising the steps of:
 placing the article into a chamber;
 reducing pressure in the chamber to a first pressure;
 introducing a mist comprising a sterilant into the chamber;
 diffusing the mist through the chamber into contact with the article; and
 wherein the first pressure is below atmospheric pressure and above the vapor
 pressure of the sterilant whereby to enhance diffusion of the mist throughout the chamber.
- (Original) A method according to claim 1 wherein the sterilant comprises hydrogen peroxide.
- (Original) A method according to claim 2 wherein the mist comprises a solution comprising hydrogen peroxide and water.
- (Original) A method according to claim 1 wherein the first pressure is at least 5 torr below atmospheric pressure.
- (Original) A method according to claim 4 wherein the first pressure is at least 15 torr below atmospheric pressure.
- (Original) A method according to claim 4 wherein the first pressure is at least 30 torr below atmospheric pressure.
- 7. (Original) A method according to claim 1 further comprising sterilizing the article.

- 8. (Original) A method according to claim 7 sufficiently efficacious to sterilize a stainless steel blade with at least 10⁶ Bacillus stearothermophilus spores in less than 60 minutes.
- 9. (Original) A method according to claim 1 wherein the chamber has an interior and the method further comprising sterilizing the interior of chamber
- (Original) A method according to claim 1 further comprising removing residual sterilant from the chamber.
- 11. (New) A method of disinfecting or sterilizing an article comprising: placing the article into a chamber; and reducing pressure in the chamber to a first pressure to disperse a mist comprising a sterilant throughout the chamber and into contact with the article.
- 12. (New) The method according to claim 11 wherein the reducing occurs prior to admission of the mist into the chamber.
- (New) The method according to claim 11 wherein the reducing occurs using a vacuum.
- 14. (New) The method according to claim 12 wherein the sterilant comprises hydrogen peroxide.
- 15. (New) The method according to claim 12 wherein the mist comprises a solution comprising hydrogen peroxide and water.
- 16. (New) The method according to claim 11 wherein the first pressure is at least 5 torr below atmospheric pressure.

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- 17. (New) The method according to claim 11 wherein the first pressure is at least 15 torr below atmospheric pressure.
- 18. (New) The method according to claim 11 wherein the first pressure is at least 30 torr below atmospheric pressure.
- (New) The method according to claim 11 wherein once a vacuum is established, the mist is admitted into the chamber.
- (New) The method according to claim 11 wherein the first pressure is a negative pressure.